

Naranjo, Eugenia

From: Janine MacGregor <Janine.MacGregor@dep.nj.gov>
Sent: Friday, August 29, 2014 2:54 PM
To: Naranjo, Eugenia
Cc: Anne Hayton
Subject: FW: Passaic Sediments RM 10.9 Dioxin Investigation QAPP
Attachments: SERAS-222-DQAPPR3-081814.pdf

Sorry Eugenia, I do not think I forwarded these to you. I apologize to you and Anne! Janine

From: Anne Hayton
Sent: Wednesday, August 20, 2014 4:22 PM
To: Janine MacGregor
Subject: FW: Passaic Sediments RM 10.9 Dioxin Investigation QAPP

Janine – I just performed a quick review of certain sections (worksheets 9-15, 17, 18). My notes/comments are listed below:

Notes:

Fyi, Note that field work is tentatively scheduled “late summer/early fall”.

Two soil cores of undetermined length (as of yet, not specified in the QAPP) will be performed at each “waste cell” (Givaudan and Diamond), for a total of 4 cores. 2 samples per coring, for a total of 8 soil samples planned, to be analyzed for PCDD/PCDFs, Aroclor PCBs, congener PCBs, HXC, HPC, ands TCDT, Cesium-137 and Beryllium-7.

EPA will provide spilt samples to Givaudan, as they requested (not sure about Tierra...doesn't mention it.).

Comments:

1. QAPP Worksheet # 12-1: analytical units for Method 1613 (dioxins/furans), Low, for sediment, are listed as **ng/mL**, which represents ppb levels for liquids - - why would this be the goal for these analyses....possible error ? I believe it should either be ng/kg or pg/g (ppt) for soil/sediments.
2. The only concern/thought I have on the sampling approach has to do with the undesignated depth of sample collection. It's true that it is difficult to know what depth is best to target, based on the sparse detail available on exactly how contaminated soil was placed in each cell. (i.e., the Givaudan cell is reportedly 17 feet deep - - were the most highly contaminated soils placed at bottom - ? hard to know). So, in the absence of a pre-determined target depth, the decision-making strategy for sample collection should be clarified.

Recommendation: Determine cell depth (for Givaudan, it's known to be 17 feet deep; for OU-1, similar information can be obtained from Tierra, or OU-1 Final Design Report*. For each core (4 total), consider coring to nearly the full depth of cell (minus 1 – 2 feet as precaution to not puncture bottom barrier) and collection of multiple samples for full depth of core(s). Of these, select several intervals for chemical analysis based on field observations and/or other factors that indicate zone of potential maximum contamination, and retain the others (archive) for *possible* future analysis (the target parameters generally have long analytical holding times under laboratory conditions).

*As I recall, Cell “A” was the “hotter” zone, up close to the river, in vicinity of former manufacturing building. However, portions of this cell also received over-packed drums of concentrated chemical waste - - are the EPA-ERT contractors avoiding this particular area? . Is it possible to target former surface/shallow “original” soil in vicinity former manufacturing/processing area? The final design report drawings can assist here.

That's it. Let me know if you have any questions, thanks, Anne

Anne Hayton
NJDEP – Site Remediation Program

(609) 984-9772
Anne.hayton@dep.nj.gov

Please note newer email address (July 2014)

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From: Naranjo, Eugenia [<mailto:Naranjo.Eugenia@epa.gov>]
Sent: Wednesday, August 20, 2014 9:18 AM
To: Janine MacGregor; Anne Hayton
Subject: Passaic Sediments RM 10.9 Dioxin Investigation QAPP

Hi Janine and Anne,
Please find attached the revised QAPP for the Dioxin investigation at RM 10.9 that includes the upland facilities sampling. The plan is to go out in September but we are still working out the access permission to the Givaudan cell. Let me know if you have any questions or would like to discuss,
Eugenia